

Title (en)  
APPARATUS FOR PERFORMING INTRA-OPERATIVE ANGIOGRAPHY

Title (de)  
VORRICHTUNG ZUR DURCHFÜHRUNG VON INTRA-OPERATIVER ANGIOGRAPHIE

Title (fr)  
DISPOSITIF POUR LA REALISATION D'ANGIOGRAPHIE PREOPERATOIRE

Publication  
**EP 1143852 B1 20071017 (EN)**

Application  
**EP 00955472 A 20000811**

Priority  
• US 0022088 W 20000811  
• US 15565299 P 19990924

Abstract (en)  
[origin: EP2910185A1] The device is provided with a laser (1) for exciting the fluorescent imaging agent which emits radiation at a wavelength that causes any of the agent located within the vasculature or tissue of interest (3) irradiated thereby to emit radiation of a particular wavelength. Advantageously, a camera capable of obtaining multiple images over a period of time, such as a CCD camera (2) may be used to capture the emissions from the imaging agent. A band-pass filter (6) prevents the capture of radiation other than that emitted by the imaging agent. A distance sensor (9) incorporates a visual display (9a) providing feedback to the physician saying that the laser be located at a distance from the vessel of interest that is optimal for the capture of high quality images.

IPC 8 full level  
**A61B 5/00** (2006.01); **A61B 1/00** (2006.01); **A61B 5/026** (2006.01); **A61B 5/0275** (2006.01); **A61B 10/00** (2006.01)

CPC (source: EP KR)  
**A61B 5/0261** (2013.01 - EP KR); **A61B 5/0275** (2013.01 - EP KR)

Cited by  
US9129366B2; US9320438B2; US9351644B2; US9357931B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)  
AL LT LV MK RO SI

DOCDB simple family (publication)  
**WO 0122870 A1 20010405**; AT E375749 T1 20071115; AT E506005 T1 20110515; AU 6767500 A 20010430; AU 782257 B2 20050714; BR 0014289 A 20020702; CA 2339214 A1 20010324; CA 2339214 C 20120327; CN 101264014 A 20080917; CN 101264014 B 20100825; CN 101406392 A 20090415; CN 101406392 B 20110518; CN 1399528 A 20030226; DE 60036781 D1 20071129; DE 60036781 T2 20080724; DE 60045880 D1 20110601; DK 1143852 T3 20071126; DK 2910185 T3 20180507; EP 1143852 A1 20011017; EP 1143852 A4 20040818; EP 1143852 B1 20071017; EP 1849408 A2 20071031; EP 1849408 A3 20071107; EP 1852061 A1 20071107; EP 1852063 A1 20071107; EP 1852063 B1 20110420; EP 2281503 A2 20110209; EP 2281503 A3 20110629; EP 2281503 B1 20150429; EP 2910185 A1 20150826; EP 2910185 B1 20180214; EP 2910185 B2 20210602; ES 2292463 T3 20080316; ES 2666182 T3 20180503; HK 1040897 A1 20020628; HK 1040897 B 20080215; HK 1108612 A1 20080516; HK 1214115 A1 20160722; JP 2003510121 A 20030318; JP 2006192280 A 20060727; JP 2011147797 A 20110804; JP 3881550 B2 20070214; JP 5081992 B2 20121128; KR 100737620 B1 20070710; KR 20020064287 A 20020807; MX PA02003064 A 20030820; PT 1143852 E 20071108; PT 2910185 T 20180419

DOCDB simple family (application)  
**US 0022088 W 20000811**; AT 00955472 T 20000811; AT 07015007 T 20000811; AU 6767500 A 20000811; BR 0014289 A 20000811; CA 2339214 A 20000811; CN 00816229 A 20000811; CN 200710137142 A 20000811; CN 200810094983 A 20000811; DE 60036781 T 20000811; DE 60045880 T 20000811; DK 00955472 T 20000811; DK 15160177 T 20000811; EP 00955472 A 20000811; EP 07015006 A 20000811; EP 07015007 A 20000811; EP 07015008 A 20000811; EP 10186218 A 20000811; EP 15160177 A 20000811; ES 00955472 T 20000811; ES 15160177 T 20000811; HK 02102594 A 20020408; HK 08102646 A 20080306; HK 16102195 A 20160225; JP 2001526090 A 20000811; JP 2006016878 A 20060125; JP 2011053502 A 20110310; KR 20027003815 A 20020322; MX PA02003064 A 20000811; PT 00955472 T 20000811; PT 15160177 T 20000811